

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P531710

Luminaire Tested: **GALN-SA7A-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531710
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-735-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25173 lumens
Efficiency: N/A
Efficacy: 117.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

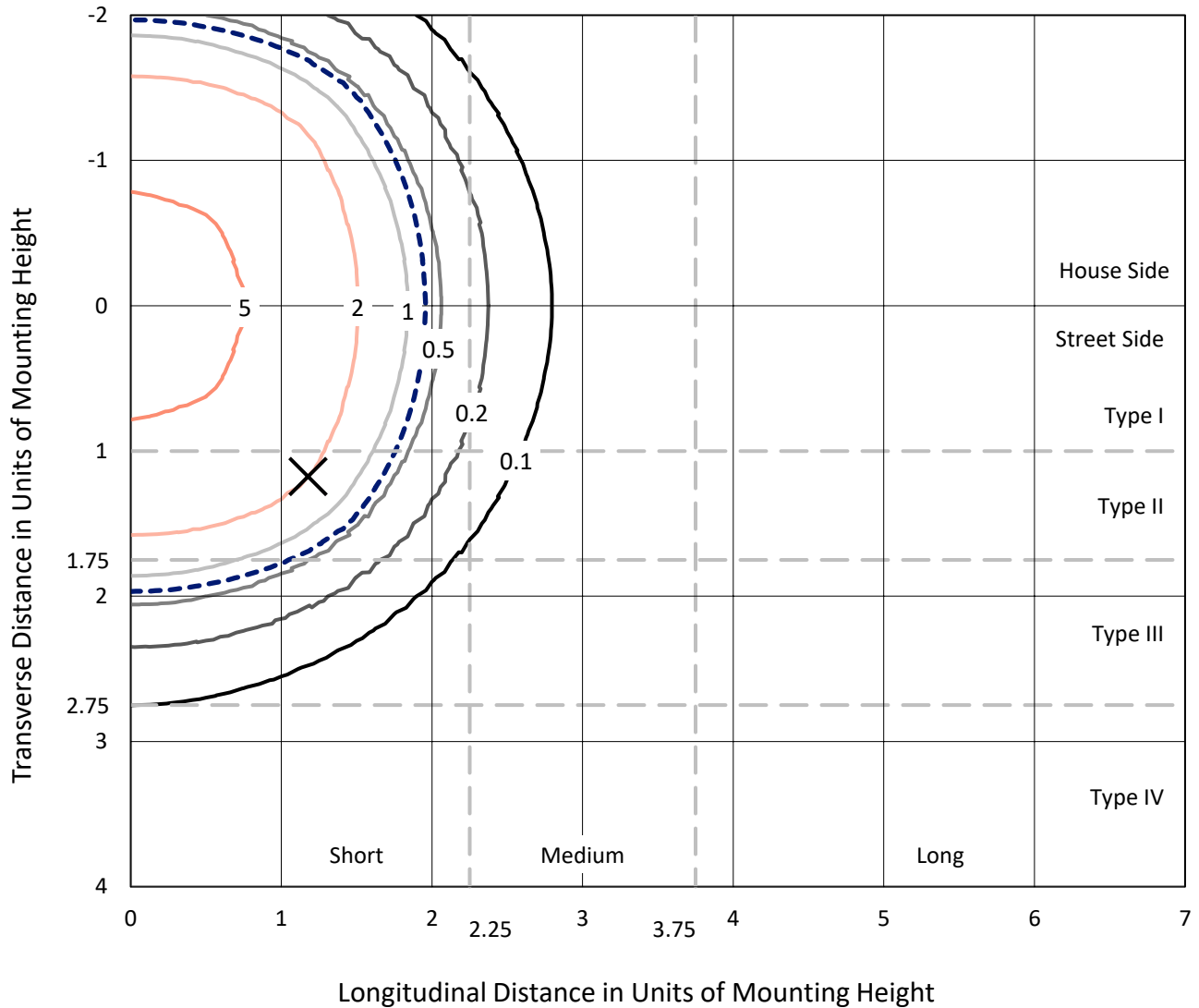
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

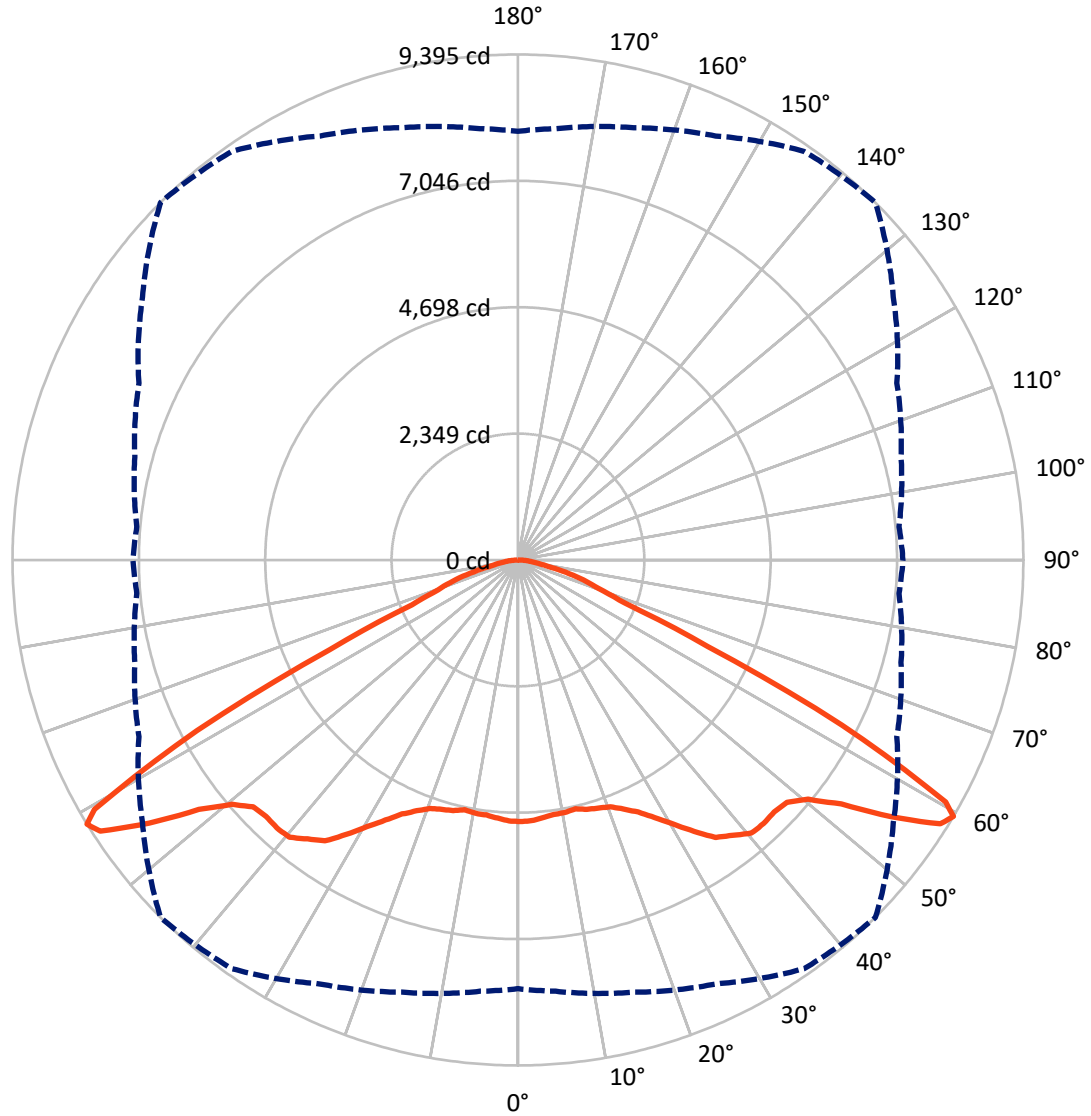
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12586.5	0.0	12586.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12586.5	0.0	12586.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	25173.0	0.0	25173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	458.4	1.8
10°-20°	1363.1	5.4
20°-30°	2380.1	9.5
30°-40°	3801.3	15.1
40°-50°	5178.1	20.6
50°-60°	7002.2	27.8
60°-70°	3840.0	15.3
70°-80°	982.4	3.9
80°-90°	167.6	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25173.0	100.0
0°-180°	25173.0	100.0

Coefficient of Utilization

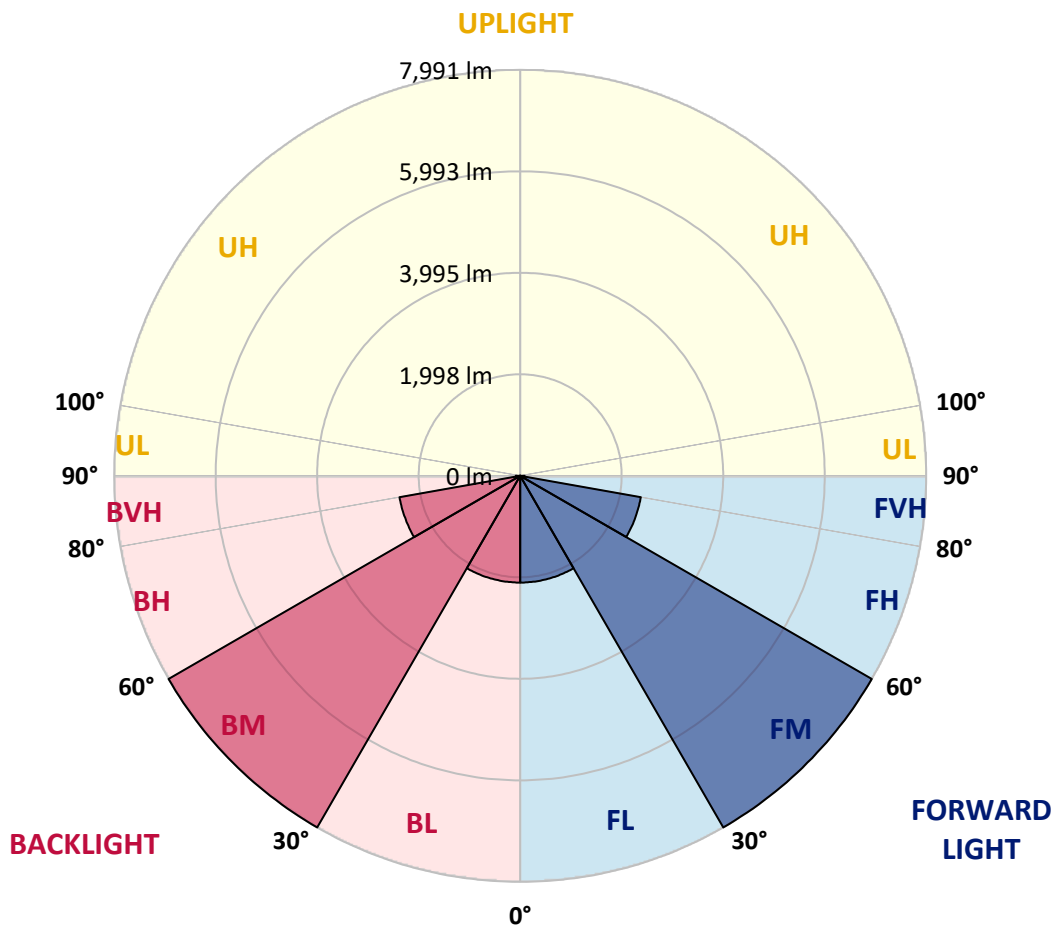


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2100.7	8.3			
FM (30°-60°)	7990.8	31.7			
FH (60°-80°)	2411.2	9.6			G2/5000
FVH (80°-90°)	83.8	0.3			G1/100
BL (0°-30°)	2100.7	8.3	B3/2500		
BM (30°-60°)	7990.8	31.7	B4/8500		
BH (60°-80°)	2411.2	9.6	B3/2500		G2/5000
BVH (80°-90°)	83.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2	4862.2
2.5°	4833.2	4868.7	4842.9	4865.4	4862.2	4852.5	4836.4	4826.7	4813.8	4833.2	4800.9
5°	4813.8	4842.9	4871.9	4833.2	4833.2	4813.8	4804.1	4784.8	4784.8	4781.6	4778.3
7.5°	4846.1	4817.0	4804.1	4810.6	4817.0	4775.1	4804.1	4765.4	4733.2	4755.7	4781.6
10°	4817.0	4830.0	4781.6	4804.1	4768.7	4775.1	4755.7	4781.6	4746.1	4746.1	4746.1
12.5°	4846.1	4810.6	4826.7	4810.6	4800.9	4746.1	4771.9	4742.8	4739.6	4771.9	4742.8
15°	4904.2	4846.1	4833.2	4800.9	4810.6	4810.6	4784.8	4788.0	4752.5	4771.9	4778.3
17.5°	4884.8	4852.5	4842.9	4804.1	4836.4	4846.1	4797.7	4765.4	4788.0	4784.8	4781.6
20°	4900.9	4913.8	4904.2	4910.6	4923.5	4897.7	4852.5	4807.4	4778.3	4820.3	4817.0
22.5°	5004.2	4991.3	4984.8	4978.4	5001.0	5026.8	4965.5	4894.5	4894.5	4923.5	4936.4
25°	5088.1	5084.8	5081.6	5110.7	5188.1	5188.1	5110.7	5020.3	4997.7	5017.1	5001.0
27.5°	5210.7	5246.2	5233.3	5284.9	5397.8	5423.6	5320.4	5213.9	5152.6	5130.0	5159.1
30°	5491.4	5449.4	5459.1	5514.0	5614.0	5697.9	5539.8	5426.8	5343.0	5339.7	5352.6
32.5°	5678.5	5710.8	5739.8	5791.4	5949.5	6014.1	5823.7	5639.8	5588.2	5559.1	5568.8
35°	6052.8	6023.7	6017.3	6068.9	6227.0	6333.5	6094.7	5933.4	5865.6	5930.2	5930.2
37.5°	6407.7	6327.0	6265.7	6333.5	6478.7	6491.6	6288.3	6201.2	6165.7	6239.9	6236.7
40°	6575.5	6569.0	6427.0	6465.8	6659.3	6678.7	6488.3	6385.1	6378.6	6475.4	6572.2
42.5°	6749.7	6688.4	6546.4	6572.2	6691.6	6698.1	6517.4	6488.3	6559.3	6652.9	6659.3
45°	6778.7	6727.1	6636.8	6572.2	6659.3	6678.7	6572.2	6591.6	6598.0	6711.0	6711.0
47.5°	6836.8	6830.3	6778.7	6730.3	6746.5	6730.3	6662.6	6691.6	6788.4	6843.2	6817.4
50°	6998.1	6930.4	6982.0	6940.0	6943.3	6988.4	6927.1	6956.2	6936.8	6888.4	6856.1
52.5°	7353.0	7320.8	7365.9	7395.0	7427.2	7530.5	7459.5	7304.6	7159.4	7030.4	7027.1
55°	7872.5	7895.1	7982.2	8130.6	8256.4	8421.0	8079.0	7707.9	7475.6	7272.4	7285.3
57.5°	8362.9	8346.8	8466.1	8804.9	9172.7	9256.6	8585.5	8056.4	7678.9	7549.8	7495.0
59°	7969.3	8046.7	8317.7	8695.2	9272.7	9395.3	8517.8	7772.5	7372.4	7111.0	7156.2
60°	7349.8	7378.8	7620.8	8146.7	8927.5	9137.2	8062.8	7333.7	6801.3	6649.7	6717.4
62.5°	5194.5	5172.0	5346.2	5775.3	6475.4	6759.4	5994.7	5481.7	5146.1	4978.4	5017.1
65°	2761.8	2865.1	2936.0	3203.8	3574.9	3874.9	3558.7	3336.1	3149.0	3010.3	3007.0
67.5°	1864.9	1852.0	1868.1	1929.4	2055.2	2139.1	2132.7	2019.7	2003.6	1977.8	2006.8
70°	1571.3	1564.8	1535.8	1535.8	1561.6	1580.9	1603.5	1616.4	1642.2	1674.5	1671.3
72.5°	1274.4	1258.3	1238.9	1229.3	1261.5	1271.2	1300.2	1313.2	1335.7	1332.5	1361.6
75°	842.1	842.1	864.7	890.5	900.2	919.5	922.8	961.5	961.5	967.9	942.1
77.5°	471.1	458.2	474.3	500.1	522.7	558.2	593.7	622.7	638.8	632.4	632.4
80°	274.2	274.2	290.4	319.4	348.5	380.7	406.5	429.1	445.2	438.8	425.9
82.5°	171.0	171.0	187.1	216.2	238.8	258.1	293.6	322.6	342.0	335.5	319.4
85°	87.1	87.1	106.5	125.8	154.9	167.8	164.5	151.6	148.4	132.3	132.3
87.5°	22.6	22.6	32.3	35.5	29.0	32.3	32.3	32.3	32.3	32.3	35.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)